

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A gene sequence of a spacer region between a gene coding 16S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis* containing a part of the base sequence of the whole base sequence represented by SEQ ID NO: 1.

2. (Currently Amended) A gene sequence of a spacer region between a gene coding 1S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis* containing a part of the base sequence or the whole base sequence represented by SEQ ID NO:2.

3. (Currently Amended) An oligonucleotide wherein the gene sequence of a spacer region between a gene coding 16S rRNA and a gene coding 23S rRNA of *Pectinatus frisingensis* has at least one of the following sequence groups or the corresponding complementary sequence:

a. 5'-CCATCCTCTTGAAAATCTC-3' (SEQ ID NO: 5)

b. ~~5'-TCTCRTCTCACAAAGTTGGC-3'~~  
TCTCYTCTCACAAAGTTGGC-3' (SEQ ID NO: 6).

4. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 1 to produce a nucleotide, and using said nucleotide as a primer for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

5. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 2 to produce a nucleotide, and using said nucleotide as a primer for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

6. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 1 or the gene sequence according to claim 3 to produce a nucleotide, and a nucleotide sequence coding 16S rRNA gene or *Pectinatus frisingensis* and using said nucleotides as primers for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

7. (Original) The method according to claim 6 wherein the nucleotide sequence coding the 16S rRNA gene of *Pectinatus frisingensis* has the following sequence:

5'-CGTATCCAGAGATGGATATT-3' (SEQ ID NO: 10).

8. (Original) A method for detecting *Pectinatus frisingensis*, comprising synthesizing nucleic acids from the gene sequence according to claim 2 or the gene sequence according to claim 3 to produce a nucleotide, and a nucleotide sequence coding 16S rRNA gene or *Pectinatus frisingensis* and using said nucleotides as primers for synthesis of nucleic acids, and treating the nucleic acid by gene amplification to detect the bacteria.

9. (Original) The method according to claim 8 wherein the nucleotide sequence coding the 16S rRNA gene of *Pectinatus frisingensis* has the following sequence:

5'-CGTATCCAGAGATGGATATT-3' (SEQ ID NO: 10).

Appln. No. 10/600,642  
Amd. dated June 15, 2006  
Reply to Office Action of May 16, 2006

**IN THE SEQUENCE LISTING**

Please substitute the attached Sequence Listing  
section for the originally filed Sequence Listing.